



AUTOMATIC FIRE EXTINGUISHING SYSTEMS Plan Review and Inspection Procedures

Department of Community Development – Building Inspections Division

Nov 2015

The Fire Department is responsible for review of automatic fire extinguishing systems for compliance with NFPA 13, 13R, 13D and alternate fire suppression systems, and applying the other requirements of the International Fire Code as amended by the City of Lenexa. The Department of Community Development is responsible for determining how the fire extinguishing systems will affect the overall building fire resistive features and any construction modifications appropriate for the level of suppression provided.

Contacts:

- Lenexa Fire Department –
Marty Quick, Division Chief (913) 888-6380, mquick@ci.lenexa.ks.us
Bob Renton, Plans Examiner (913) 477-7920 brenton@ci.lenexa.ks.us
- Lenexa Department of Community Development–
Chris Zheng, Plans Examiner 913/477-7692, czheng@ci.lenexa.ks.us
- Fee, application, and business license questions – **Customer Service Staff 913/477-7500**

Permits and Fees:

When issuance of a permit is required, the Department of Community Development shall issue all required permits and collect any required permit and plan review fees. Details can be found on the web at <http://www.lenexa.com/finance/fees.html>.

- **Installation independent of other work:** A fire suppression system building permit shall be issued for Fire suppression system installations or modifications that are not part of an existing permit for new construction or renovation prior to starting any work.
- **Installation covered by another permit:** A separate permit is not required when the fire suppression system installation is covered by an existing building permit for new work.

Contractor License:

When a permit is issued, the sprinkler contractor is required to have a valid "Class D – Fire Protection license" issued by Johnson County Contractor Licensing, 111 South Cherry Street – Suite 1054, Olathe KS 66061 913/715-2233. contractorlicensing@jocogov.org

Business License:

Every contractor, whether a subcontractor or primary contractor, is required to have a valid business license when doing any work in the City of Lenexa. A business license application may be obtained by contacting Customer Service at 913/477-7500 or by downloading the application at http://www.lenexa.com/commdev/licenses_business.html.

Plan Submittal:

Four complete sets of plans, specifications, and calculations shall be submitted to the Department of Community Development at Lenexa City Hall, 12350 West 87th Street Parkway.

Minimum Plans and Calculations:

- All sprinkler plans shall be sealed by a Kansas licensed engineer.
- Provide the minimum Plans and Calculations contained in appropriated NFPA document associated with the design.

Plan Review Procedures:

1. All plans and applications shall be submitted to the Department of Community Development at City Hall.
2. All activity associated with the review, approval, and inspection will be documented in the Department of Community Development permit tracking system.
3. Building staff will distribute plans to the Fire Department and the Development Review division for review.
4. All review comments will be recorded in the permit tracking system. Building staff will consolidate all comments and forward them to the contractor once the reviews are complete.
5. When the plans meet City requirements, the Fire Department will stamp the plans “Approved,” retain one copy for their records, and forward a minimum of two copies of the approved plans to the Department of Community Development.
6. The Department of Community Development will retain one copy with the approved building plans, issue any required permits, and return all remaining approved plan copies to the applicant/contractor.

INSPECTIONS – Inspections are scheduled online at <https://permits.ci.lenexa.ks.us/citizenaccess/> or by calling Customer Service at 913/477-7500 during normal business hours.

- **Outside fire line** – This is the inspection of the piping materials, thrust protection, and installation prior to being covered, and the witnessing of the 2-hour minimum of 200 psi hydrostatic pressure test for fire lines serving a building or private fire hydrant. The piping is allowed to be “shaded” or weighted down to prevent movement during the test, but all joints must remain visible.
- **Fire line flush** – This is the inspection of the flushing of the underground fire suppression lines to insure proper debris removal prior to connecting to the inside building standpipes or sprinkler system. The installer will flush the system to the satisfaction of the inspector at the required rate of 10 feet per second per NFPA standards.
- **Inside fire line** – This is the inspection of the inside of “wet” fire suppression system lines and the witnessing of a 200 psi hydrostatic pressure test for a minimum of two hours. All sprinkler heads should be in place and all required plans and cut sheets should be on the job site. The same designation is used to schedule inspection on a “dry” system, but the testing is with 40 psi air pressure for 24 hours.
- **Standpipe flow test** – This is the inspection to witness the flowing of the standpipes to verify the proper rate of the flow and pressure as required by the Fire Codes. The test is performed by the installer and witnessed by the Fire Inspector. This inspection is done before any wiring, plumbing piping, or mechanical ducts in walls and ceilings is covered with insulation, sheet rock, paneling, etc. All piping, ductwork, sub-panels, wiring, junction boxes, and outlet boxes shall be installed. Do not install switches or receptacles.
- **Fire pump** – This is the inspection for the complete performance testing of the fire pump. Test includes the flowing of the standpipes.
- **Final inspection** – Along with other building components, this inspection includes verification that initiating devices function properly and supervisory signals are working properly and monitored.

FOR MORE INFORMATION

City of Lenexa Department of Community Development
12350 W 87th Street Parkway, Lenexa, KS 66215
913/477-7500 (FAX) 913/477-7730